Sasanka Chakrabarti

List of Publications by Year
in descending order

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Version: 2024-02-01

78 papers	3,692 citations	172386 29 h-index	214721 47 g-index
82 all docs	82 docs citations	82 times ranked	6472 citing authors

#	Article	IF	Citations
1	Transplantation of ACE2- Mesenchymal Stem Cells Improves the Outcome of Patients with COVID-19 Pneumonia. , 2020, 11, 216.		921
2	Proteinopathy, oxidative stress and mitochondrial dysfunction: cross talk in Alzheimer's disease and Parkinson's disease. Drug Design, Development and Therapy, 2017, Volume11, 797-810.	2.0	217
3	Mechanistic Insights into the Oxidized Low-Density Lipoprotein-Induced Atherosclerosis. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-14.	1.9	155
4	Enhanced ROS production and oxidative damage in subcutaneous white adipose tissue mitochondria in obese and type 2 diabetes subjects. Molecular and Cellular Biochemistry, 2015, 399, 95-103.	1.4	120
5	Metabolic Risk Factors of Sporadic Alzheimer's Disease: Implications in the Pathology, Pathogenesis and Treatment. , 2015, 6, 282.		101
6	Reactive Oxygen Species, Redox Signaling and Neuroinflammation in Alzheimer's Disease: The NF-κB Connection. Current Topics in Medicinal Chemistry, 2015, 15, 446-457.	1.0	93
7	Î±â€Synuclein induced membrane depolarization and loss of phosphorylation capacity of isolated rat brain mitochondria: Implications in Parkinson's disease. FEBS Letters, 2010, 584, 1571-1576.	1.3	92
8	Mitochondrial dysfunction mediated by quinone oxidation products of dopamine: Implications in dopamine cytotoxicity and pathogenesis of Parkinson's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 663-673.	1.8	92
9	Altered Serum Levels of Adipokines and Insulin in Probable Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 41, 525-533.	1.2	91
10	Mesenchymal stem cell treatment improves outcome of COVID-19 patients via multiple immunomodulatory mechanisms. Cell Research, 2021, 31, 1244-1262.	5.7	81
11	Lipid peroxidation associated cardiolipin loss and membrane depolarization in rat brain mitochondria. Neurochemistry International, 2006, 49, 20-27.	1.9	77
12	Depolarization and cardiolipin depletion in aged rat brain mitochondria: Relationship with oxidative stress and electron transport chain activity. Neurochemistry International, 2007, 50, 719-725.	1.9	74
13	Inhibition of rat brain mitochondrial electron transport chain activity by dopamine oxidation products during extended in vitro incubation: Implications for Parkinson's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2005, 1741, 65-74.	1.8	73
14	Vitamin D and Alzheimerâ€™s Disease: Neurocognition to Therapeutics. International Journal of Alzheimer's Disease, 2015, 2015, 1-11.	1.1	63
15	Oxidative Stress and Amyloid Beta Toxicity in Alzheimerâ€™s Disease: Intervention in a Complex Relationship by Antioxidants. Current Medicinal Chemistry, 2013, 20, 4648-4664.	1.2	57
16	Alpha-Synuclein as a Biomarker of Parkinsonâ€™s Disease: Good, but Not Good Enough. Frontiers in Aging Neuroscience, 2021, 13, 702639.	1.7	55
17	Oxidative Stress, Neuroinflammation, and NADPH Oxidase: Implications in the Pathogenesis and Treatment of Alzheimerâ€™s Disease. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-19.	1.9	52
18	Mitochondrial bioenergetics is not impaired in nonobese subjects with type 2 diabetes mellitus. Metabolism: Clinical and Experimental, 2011, 60, 1702-1710.	1.5	50

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19	Mitochondrial Dysfunction during Brain Aging: Role of Oxidative Stress and Modulation by Antioxidant Supplementation. , 2011, 2, 242-56.		49
20	Lipid peroxidation associated protein damage in rat brain crude synaptosomal fraction mediated by iron and ascorbate. Neurochemistry International, 2001, 39, 311-317.	1.9	48
21	Alpha-synuclein, Proteotoxicity and Parkinson's Disease: Search for Neuroprotective Therapy. Current Neuropharmacology, 2018, 16, 1086-1097.	1.4	46
22	Î±â€synucleinâ€induced mitochondrial dysfunction in isolated preparation and intact cells: Implications in the pathogenesis of Parkinson's disease. Journal of Neurochemistry, 2014, 131, 868-877.	2.1	45
23	Aging and Neurodegeneration: A Tangle of Models and Mechanisms. , 2016, 7, 111.		44
24	Dopamine induced protein damage in mitochondrial-synaptosomal fraction of rat brain. Brain Research, 2001, 895, 245-249.	1.1	41
25	Age-related oxidative inactivation of Na+, K+-ATPase in rat brain crude synaptosomes. Experimental Gerontology, 2003, 38, 705-710.	1.2	39
26	Multiple Mechanisms of Iron-Induced Amyloid Beta-Peptide Accumulation in SHSY5Y Cells: Protective Action of Negletein. NeuroMolecular Medicine, 2014, 16, 787-798.	1.8	39
27	Biochemical deficits and cognitive decline in brain aging: Intervention by dietary supplements. Journal of Chemical Neuroanatomy, 2019, 95, 70-80.	1.0	39
28	Dietary supplementation with N-acetyl cysteine, Î±-tocopherol and Î±-lipoic acid reduces the extent of oxidative stress and proinflammatory state in aged rat brain. Biogerontology, 2012, 13, 479-488.	2.0	37
29	Dopamine Cytotoxicity Involves Both Oxidative and Nonoxidative Pathways in SH-SY5Y Cells: Potential Role of Alpha-Synuclein Overexpression and Proteasomal Inhibition in the Etiopathogenesis of Parkinson's Disease. Parkinson's Disease, 2014, 2014, 1-12.	0.6	37
30	Quinone and oxyradical scavenging properties of N-acetylcysteine prevent dopamine mediated inhibition of Na⁺, K⁺-ATPase and mitochondrial electron transport chain activity in rat brain: Implications in the neuroprotective therapy of Parkinson's disease. Free Radical Research, 2008, 42, 574-581.	1.5	35
31	Antioxidant role of amyloid Î² protein in cell-free and biological systems: implication for the pathogenesis of Alzheimerdisease. Free Radical Biology and Medicine, 2013, 56, 184-192.	1.3	34
32	COVID-19 in India: Are Biological and Environmental Factors Helping to Stem the Incidence and Severity?. , 2020, 11, 480.		34
33	Dopamine but not 3,4-dihydroxy phenylacetic acid (DOPAC) inhibits brain respiratory chain activity by autoxidation and mitochondria catalyzed oxidation to quinone products: Implications in Parkinson's disease. Brain Research, 2007, 1139, 195-200.	1.1	32
34	Raised Serum Proinflammatory Cytokines in Alzheimerâ€™s Disease with Depression. , 2014, 5, 170-6.		31
35	Role of Pro-Inflammatory Cytokines and Vitamin D in Probable Alzheimer's Disease with Depression. , 2017, 8, 267.		31
36	Combination of N-acetylcysteine, Î±-lipoic acid and Î±-tocopherol substantially prevents the brain synaptosomal alterations and memory and learning deficits of aged rats. Experimental Gerontology, 2014, 50, 19-25.	1.2	30

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37	Should ACE2 be given a chance in COVID-19 therapeutics: A semi-systematic review of strategies enhancing ACE2. European Journal of Pharmacology, 2020, 887, 173545.	1.7	30
38	Targeting Host Cell Proteases to Prevent SARS-CoV-2 Invasion. Current Drug Targets, 2021, 22, 192-201.	1.0	29
39	Age-related oxidative decline of mitochondrial functions in rat brain is prevented by long term oral antioxidant supplementation. Biogerontology, 2011, 12, 119-131.	2.0	27
40	Raised Serum Adenosine Deaminase Level in Nonobese Type 2 Diabetes Mellitus. Scientific World Journal, The, 2013, 2013, 1-5.	0.8	27
41	Interaction of Î±-synuclein and Parkin in iron toxicity on SH-SY5Y cells: implications in the pathogenesis of Parkinson's disease. Biochemical Journal, 2020, 477, 1109-1122.	1.7	27
42	The Oral Iron Chelator, Deferasirox, Reverses the Age-Dependent Alterations in Iron and Amyloid-Î² Homeostasis in Rat Brain: Implications in the Therapy of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2015, 49, 681-693.	1.2	24
43	Ceramide and Sphingosine-1-Phosphate in Cell Death Pathways : Relevance to the Pathogenesis of Alzheimer';s Disease. Current Alzheimer Research, 2016, 13, 1232-1248.	0.7	23
44	Dopamine Oxidation Products Inhibit Na+, K+-ATPase Activity in Crude Synaptosomalâ€“mitochondrial Fraction from Rat Brain. Free Radical Research, 2003, 37, 597-601.	1.5	21
45	Serum Homocysteine, Dehydroepiandrosterone Sulphate and Lipoprotein (a) in Alzheimer's Disease and Vascular Dementia. , 2013, 4, 57-64.		21
46	Genistein, the Isoflavone in Soybean, Causes Amyloid Beta Peptide Accumulation in Human Neuroblastoma Cell Line: Implications in Alzheimer's Disease. , 2015, 6, 456.		20
47	Of Cross-immunity, Herd Immunity and Country-specific Plans: Experiences from COVID-19 in India. , 2020, 11, 1339.		20
48	Understanding the cross-talk between human microbiota and gastrointestinal cancer for developing potential diagnostic and prognostic biomarkers. Seminars in Cancer Biology, 2022, 86, 643-651.	4.3	20
49	Multiple mechanisms of age-dependent accumulation of amyloid beta protein in rat brain: Prevention by dietary supplementation with N-acetylcysteine, Î±-lipoic acid and Î±-tocopherol. Neurochemistry International, 2016, 95, 92-99.	1.9	19
50	The leishmanicidal activity of artemisinin is mediated by cleavage of the endoperoxide bridge and mitochondrial dysfunction. Parasitology, 2019, 146, 511-520.	0.7	19
51	Dietary supplementation with N-acetylcysteine, Î±-tocopherol and Î±-lipoic acid prevents age related decline in Na+,K+-ATPase activity and associated peroxidative damage in rat brain synaptosomes. Biogerontology, 2008, 9, 421-428.	2.0	17
52	Dopamine Cytotoxicity on SH-SY5Y Cells: Involvement of Î±-Synuclein and Relevance in the Neurodegeneration of Sporadic Parkinsonâ€™s Disease. Neurotoxicity Research, 2019, 35, 898-907.	1.3	17
53	Is 1,8-Cineole-Rich Extract of Small Cardamom Seeds More Effective in Preventing Alzheimerâ€™s Disease than 1,8-Cineole Alone?. NeuroMolecular Medicine, 2020, 22, 150-158.	1.8	17
54	Food fermentation â€“ Significance to public health and sustainability challenges of modern diet and food systems. International Journal of Food Microbiology, 2022, 371, 109666.	2.1	17

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55	Lipid peroxidation in developing rat brain during undernutrition. Neuroscience Letters, 1984, 48, 109-113.	1.0	16
56	Aging and antioxidants modulate rat brain levels of homocysteine and dehydroepiandrosterone sulphate (DHEA-S): Implications in the pathogenesis of Alzheimer's disease. Neuroscience Letters, 2010, 483, 123-126.	1.0	12
57	Repurposing of SARS-CoV nucleocapsid protein specific nuclease resistant RNA aptamer for therapeutics against SARS-CoV-2. Infection, Genetics and Evolution, 2020, 85, 104497.	1.0	12
58	Phenylhydrazine mediated degradation of bovine serum albumin and membrane proteins of human erythrocytes. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1028, 89-94.	1.4	11
59	Serum 24â€hydroxycholesterol in probable Alzheimer's dementia: Reexploring the significance of a tentative Alzheimer's disease biomarker. Aging Medicine (Milton (N S W)), 2019, 2, 74-81.	0.9	10
60	Interdisciplinary Research in Alzheimerâ€™s Disease and the Roles International Societies Can Play. , 2021, 12, 36.		10
61	Aging Promotes Amyloid-Î² Peptide Induced Mitochondrial Dysfunctions in Rat Brain: A Molecular Link Between Aging and Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 27, 753-765.	1.2	8
62	Vitamin D and immuno-pathology of COVID-19: many interactions but uncertain therapeutic benefits. Expert Review of Anti-Infective Therapy, 2021, 19, 1245-1258.	2.0	8
63	Reserpine inhibition of lipid peroxidation and protein phosphorylation in rat brain. Biochemical Pharmacology, 1986, 35, 1611-1613.	2.0	7
64	Physiological Relevance of Angiotensin Converting Enzyme 2 As a Metabolic Linker and Therapeutic Implication of Mesenchymal Stem Cells in COVID-19 and Hypertension. Stem Cell Reviews and Reports, 2021, 17, 132-143.	1.7	7
65	Inhibition of complex I-III activity of brain mitochondria after intracerebroventricular administration of streptozotocin in rats is possibly related to loss of body weight. Heliyon, 2020, 6, e04490.	1.4	5
66	Identifying the mechanisms of Î±-synuclein-mediated cytotoxicity in Parkinsonâ€™s disease: new insights from a bioinformatics-based approach. Future Neurology, 2020, 15, .	0.9	4
67	Crossâ€immunity and trained immunity in explaining variable COVIDâ€19 mortalityâ€”Guidance for future pandemics. Journal of Medical Virology, 2021, 93, 4094-4096.	2.5	4
68	Protective effects of cyclosporine A on neurodegeneration and motor impairment in rotenone-induced experimental models of Parkinson's disease. European Journal of Pharmacology, 2022, 929, 175129.	1.7	4
69	Early postnatal undernutrition impairs protein kinase C-dependent phosphorylation in rat brain synaptosomes. Neuroscience Letters, 1993, 150, 65-67.	1.0	3
70	Immunotherapeutic interventions in Parkinson's disease: Focus on Î±-Synuclein. Advances in Protein Chemistry and Structural Biology, 2022, 129, 381-433.	1.0	3
71	Gene-specific oxidative lesions in aged rat brain detected by polymerase chain reaction inhibition assay. Free Radical Research, 2007, 41, 288-294.	1.5	2
72	Clinicotherapeutic Potential of Leptin in Alzheimerâ€™s Disease and Parkinsonâ€™s Disease. Asian Journal of Neuroscience, 2014, 2014, 1-9.	0.2	2

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73	Pharmaceutical and Pharmacological Aspects of Modulation of Oxidative Stress 2020. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-2.	1.9	2
74	Alphaâ€synuclein, ferroptosis and neurodegeneration: Investigating a complex relationship. Alzheimer's and Dementia, 2020, 16, e041982.	0.4	1
75	Effectiveness of ChAdOx1 nCoV-19 vaccine during the delta (B.1.617.2) variant surge in India. Lancet Infectious Diseases, The, 2022, 22, 446-447.	4.6	1
76	P1â€345: Role of Vitamin D Signaling in Sporadic Alzheimerâ€™s Disease: A Clinicoâ€Experimental Study. Alzheimer's and Dementia, 2016, 12, P561.	0.4	0
77	Mitochondrial Dysfunction in Sporadic Alzheimerâ€™s Disease: Mechanisms, Consequences and Interventions. , 2012, , 49-65.		0
78	Of Cross-Immunity, Herd Immunity and Country-Specific Plans: Experiences from COVID-19 in India. SSRN Electronic Journal, 0, , .	0.4	0